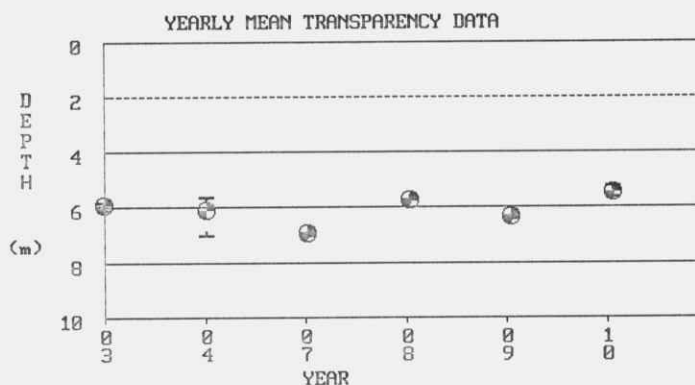


MIDAS: 5790  
TRUE BASIN: 1  
SAMPLE STATION: 1

### TRUE BASIN CHARACTERISTICS

SURFACE AREA: 38.0 ha. (93.9 a.)  
FLUSHING RATE: 0.40 flushes/yr.  
VOLUME: 1956068.8 cu. m. (1587 ac.-ft.)  
DIRECT DRAINAGE AREA: 1.43 sq. km. (0.55 sq. mi.)

SECCHI DISK TRANSPARENCY GRAPHS:



### SUMMARY OF CHEMICAL AND TROPHIC STATE PARAMETERS:

| YEAR     | MEAN  | MEAN | MEAN   | MEAN  | TOTAL PHOS. MEANS (ppb) |      |      |      | SECCHI DISK (m.) |      |      |   | CHLOROPHYLL A(ppb) |      |      | TROPIC STATE INDICES |   |     |     |
|----------|-------|------|--------|-------|-------------------------|------|------|------|------------------|------|------|---|--------------------|------|------|----------------------|---|-----|-----|
|          | COLOR | pH   | ALK    | COND. | EPI                     | SURF | BOT. | PRO. | MIN.             | MEAN | MAX. | N | MIN.               | MEAN | MAX. | EPI PHOS             |   |     |     |
|          | (SPU) |      | (mg/l) | (uS   |                         |      |      |      |                  |      |      |   |                    |      |      | C                    | G | SEC | CHL |
| 2003     | -     | -    | -      | -     | -                       | -    | -    | -    | 5.8              | 5.9  | 6.1  | 1 | -                  | -    | -    | -                    | - | -   | -   |
| 2004     | 9     | 7.42 | 11.0   | 85    | 5                       | -    | -    | -    | 5.6              | 6.1  | 7.0  | 4 | 2.3                | 2.3  | 2.3  | -                    | - | -   | -   |
| 2007     | -     | -    | -      | -     | -                       | -    | -    | -    | 6.9              | 6.9  | 7.0  | 1 | -                  | -    | -    | -                    | - | -   | -   |
| 2008     | -     | -    | -      | -     | -                       | -    | -    | -    | 5.7              | 5.7  | 5.7  | 1 | -                  | -    | -    | -                    | - | -   | -   |
| 2009     | -     | -    | -      | -     | -                       | 5    | -    | -    | 6.3              | 6.3  | 6.4  | 1 | -                  | -    | -    | -                    | - | -   | -   |
| 2010     | -     | -    | -      | -     | -                       | 6    | -    | -    | 5.2              | 5.4  | 5.6  | 1 | -                  | -    | -    | -                    | - | -   | -   |
| SUMMARY: | 9     | 7.42 | 11.0   | 85    | 5                       | 6    | -    | -    | 5.2              | 6.1  | 7.0  | 6 | 2.3                | 2.3  | 2.3  | -                    | - | -   | -   |

LAKE: MOOSE HILL P (VLMP 07 )  
TOWN: LIVERMORE FALLS  
COUNTY: ANDROSCOGGIN

MIDAS: 5790  
\*TRUE BASIN: 1  
\*SAMPLE STATION: 1

LATE SUMMER TEMPERATURE / DISSOLVED OXYGEN PROFILES:

| DEPTH | SAMPLE DATE |      |          |      |          |      |          |      |          |      |
|-------|-------------|------|----------|------|----------|------|----------|------|----------|------|
|       | 08/09/04    |      | 08/10/07 |      | 08/11/08 |      | 08/19/09 |      | 08/19/10 |      |
| m     | °C          | dpm  | °C       | dpm  | °C       | dpm  | °C       | dpm  | °C       | dpm  |
| 0.0   | 23.7        | 8.2  | 22.4     | 9.1  | 22.4     | 10.0 | 27.5     | 8.8  | 25.6     | 99.9 |
| 1.0   | 23.7        | 8.1  | 22.4     | 9.1  | 22.4     | 9.8  | 27.6     | 8.7  | 24.9     | 99.9 |
| 2.0   | 23.7        | 8.1  | 22.3     | 9.1  | 22.4     | 9.7  | 27.5     | 8.7  | 24.5     | 99.9 |
| 3.0   | 23.7        | 8.1  | 21.8     | 9.1  | 22.4     | 9.5  | 26.0     | 9.1  | 24.3     | 99.9 |
| 4.0   | 23.6        | 8.2  | 21.6     | 9.1  | 21.9     | 9.3  | 24.5     | 9.1  | 24.2     | 99.9 |
| 5.0   | 17.9        | 12.3 | 21.5     | 9.0  | 21.6     | 9.3  | 21.6     | 10.3 | 24.0     | 99.9 |
| 6.0   | 13.5        | 11.0 | 19.2     | 13.3 | 19.0     | 12.2 | 16.8     | 11.9 | 22.4     | 99.9 |
| 7.0   | 10.9        | 8.1  | 11.6     | 10.4 | 11.0     | 9.8  | 11.0     | 6.4  | 12.5     | 99.9 |
| 8.0   | 8.8         | 4.7  | 9.7      | 7.0  | 9.4      | 8.9  | 9.3      | 4.5  | 10.2     | 99.9 |
| 9.0   | 7.9         | 2.3  | 8.8      | 3.7  | -        | -    | 8.1      | 1.8  | 8.9      | 99.9 |
| 10.0  | 7.4         | 0.5  | 8.1      | 1.1  | 7.7      | 3.4  | 7.6      | 0.3  | 7.7      | 99.9 |

## **WATER QUALITY SUMMARY**

### **MOOSE HILL POND, LIVERMORE FALLS**

Midas: 5790, Sample Station # 1

The Maine Department of Environmental Protection (ME-DEP) and the Volunteer Lake Monitoring Program (VLMP) have collaborated in the collection of lake data to evaluate water quality, track algal blooms, and determine water quality trends. This dataset does not include bacteria, mercury, or nutrients other than phosphorus.

Water quality monitoring datasets for Moose Hill Pond have been collected since 2003. During this period, 1 year of basic chemical information was collected in addition to Secchi Disk Transparencies (SDT). In summary, the water quality of Moose Hill Pond is considered to be above average, based on measures of SDT, total phosphorus (TP) and Chlorophyll-a (Chla). The potential for nuisance algal blooms on Moose Hill Pond is low.

Water Quality Measures: Moose Hill Pond is a non-colored lake (average color 9 SPU) with an average SDT of 6.3m (20.7ft). The water column TP for Moose Hill Pond is 5 parts per billion (ppb), while Chla is 2.3 ppb. Recent dissolved oxygen (DO) profiles show low DO depletion in deep areas of the lake. The potential for TP to leave the bottom sediments and become available to algae in the water column (internal loading) is low.

See ME-DEP Explanation of Lake Water Quality Monitoring Report for measured variable explanations. Additional lake information can be found on the Internet at <http://www.lakesofmaine.org/> and/or <http://www.maine.gov/dep/blwq/lake.htm>, or telephone the ME-DEP at 207-287-3901 or the VLMP at 207-783-7733.

Filename: moos5790, Revised: 3/08, By: jp